Baghdad, Iraq

5 day forecast

	Summary	Max day (Fahrenheit)	Min night (Fahrenheit)	Wind (mph)	Visibility	Pressure (mb)	Relative humidity
Monday Sunrise 05:55 (ADT) Sunset 20:16 (ADT)		116°F	86°F	16	good	1001	6
Tuesday Sunrise 05:55 (ADT) Sunset 20:16 (ADT)		113°F	78°F	16	good	1000	10
Wednesday Sunrise 05:55 (ADT) Sunset 20:16 (ADT)		111°F	73°F	13	good	1001	11
Thursday Sunrise 05:56 (ADT) Sunset 20:16 (ADT)		111°F	80°F	12	good	1001	8
Friday Sunrise 05:56 (ADT) Sunset 20:16 (ADT)		109°F	82°F	15	good	1001	13

Commercial Computers Environmental Characteristics

Server/Client shall meet the Temperature specification as follows;

Operating: 50°F to 95°F (10°C to 35°C).

Storage/Non Operating: -4°F to 140°F (-20°C to 60°C).

Rugged Computers Environmental Characteristics

All components shall meet or exceed the USMC Environmental Requirements as listed:

The following test methods and guidelines shall be used to determine the effects of natural and induced environments on equipment used in USMC applications. USMC will perform environmental tests in accordance with MIL-STD 810F or later, or equivalent test standards.

Criteria for selection: If Rugged Laptops fails in any one of the critical criterion, then it is considered a failure and will shall not be selected. Proposed model shall be available for purchase at the time of testing.

Rugged Computers
Environmental Characteristics, cont

Critical criterion:

Temperature minimum Operating and Storage Requirements: MIL-STD-810F, Minimum 24 hours,

Operating: 5°F to 131°F (-15°C to 55°C). Method 501.4 (Procedure II)

Storage: -40°F to 167°F (-40°C to 75°C). Method 501.4 (Procedure I)

Vibration minimum Requirement –Two wheeled Trailer: MIL-STD-810F, Method 514.5, IAW Table 514.5C-, figure 514.5C-2.

Shock minimum Requirement: MIL-STD-810F, Method 516.4, Procedure IV, Minimum 14 drops on all faces and corners.

Rugged Computers
Environmental Characteristics, cont

Humidity minimum Requirement: MIL-STD-810F, Method 507.4, Procedure 4.5.2) 85-95% relative humidity for minimum six 24-hour cycles.

Rain minimum Requirement, Drip (Operational): MIL-STD-810F, Method 506.4, Procedure III.

Dust minimum Requirement, Blowing: MIL-STD-810F, Method 510.4, minimum 6 hrs duration, minimum temperature 30 C, Air velocity between 300 and 600 ft/min.

Bench Handling Requirement:

Operating: MIL-STD-810F, Method 516.4, Procedure IV, drop minimum 2” and 4” opposite edge drops, topside only (minimum 4 drops @ each height).

Non-operating: MIL-STD-810F, Method 516.4, Procedure IV, drop

Rugged Computers
Environmental Characteristics, cont

Non-Critical criterion:

Altitude minimum Requirement, Storage (**Optional**): MIL-STD-810F, Method 500.4, Procedure I, Minimum 33,000 ft, maximum rate of change is 12,700 ft/min.

Salt Fog minimum Requirement (**Optional**): MIL-STD-810F, Method 509.4, Procedure 4.5.2, minimum 48 hrs in 5% NaCL solution, Ambient Temperature.

Transit Drop Shock minimum Requirement (**Optional**): MIL-STD-810F, Method 516.4, Procedure IV, drop on all faces and corners (minimum 14 drops).

Semi-Rugged Computers Environmental Characteristics

All components shall meet or exceed the USMC Environmental Requirements as listed:

The following test methods and guidelines shall be used to determine the effects of natural and induced environments on equipment used in USMC applications. USMC will perform environmental tests in accordance with MIL-STD 810F or later, or equivalent test standards.

Criteria for selection: If Rugged Laptops fails in any one of the critical criterion, then it is considered a failure and will shall be disqualified.

Semi-Rugged Computers Environmental Characteristics, cont.

Critical criterion:

Temperature minimum Operating and Storage Requirements: MIL-STD-810F, Method 502.3, Procedure II, Minimum 24 hours,

Operating: 14°F to 120°F (-10°C to 49°C).

Storage: -4°F to 129°F (-20°C to 54°C).

Vibration minimum Requirement: MIL-STD-810F, Method 514.4, IAW Table 514.4-AI. Minimum 60 min per axis.

Humidity minimum Requirement: 85-95% relative humidity for minimum six 24-hour cycles.

Semi-Rugged Computers Environmental Characteristics, cont.

Rain minimum Requirement: MIL-STD-810F, Method 506.3, Procedure II, minimum 7 gal/min for 15 min (non-operational).

Dust minimum Requirement: MIL-STD-810F, Method 510.3, minimum 6 hrs duration, minimum temperature 30 C, Air velocity between 300 and 600 ft/min.

Bench Handling Requirement:

Operating: MIL-STD-810F, Method 516.4, Procedure IV, drop minimum 2” and 4” opposite edge drops, topside only (minimum 4 drops @ each height).

Non-operating: MIL-STD-810F, Method 516.4, Procedure IV, drop minimum 2” and 4” opposite edge drops, each side (minimum 8 drops).

Semi-Rugged Computers Environmental Characteristics, cont.

Non-Critical criterion:

Altitude minimum Requirement (**Optional**): MIL-STD-810F, Method 500.3, Procedure I, Minimum 33,000 ft, maximum rate of change is 12,700 ft/min (non-operational).

Salt Fog minimum Requirement (**Optional**): MIL-STD-810F, Method 509.3, Procedure I, minimum 48 hrs in 5% NaCL solution, Ambient Temperature.

Environmental Characteristics

So, what is your program Requirements?

- Commercial
- Rugged
- Semi-Rugged